

RAW SEQUENCE LISTING

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Application Serial Number: 10/560,978
Source: IFWO
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IFWP

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DATE: 09/12/2006

PATENT APPLICATION: US/10/560,978

TIME: 10:49:19

Input Set : A:\281278US0PCT.ST25.txt

Output Set: N:\CRF4\09122006\J560978.raw

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3 <110> APPLICANT: Soto-Jara, Claudio
4   Maundrell, Kinsey
6 <120> TITLE OF INVENTION: USE OF PRION CONVERSION MODULATING AGENTS
8 <130> FILE REFERENCE: 281278US0PCT
10 <140> CURRENT APPLICATION NUMBER: 10/560,978
11 <141> CURRENT FILING DATE: 2005-12-16
13 <150> PRIOR APPLICATION NUMBER: PCT/EP04/51170
14 <151> PRIOR FILING DATE: 2004-06-18
16 <150> PRIOR APPLICATION NUMBER: EP 03101795.7
17 <151> PRIOR FILING DATE: 2003-06-19
19 <160> NUMBER OF SEQ ID NOS: 6
21 <170> SOFTWARE: PatentIn version 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 4563
25 <212> TYPE: PRT
26 <213> ORGANISM: Homo sapiens
28 <400> SEQUENCE: 1
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31 1 5 10 15
34 Leu Leu Leu Leu Leu Leu Ala Gly Ala Arg Ala Glu Glu Glu Met Leu
35 20 25 30
38 Glu Asn Val Ser Leu Val Cys Pro Lys Asp Ala Thr Arg Phe Lys His
39 35 40 45
42 Leu Arg Lys Tyr Thr Tyr Asn Tyr Glu Ala Glu Ser Ser Ser Gly Val
43 50 55 60
46 Pro Gly Thr Ala Asp Ser Arg Ser Ala Thr Arg Ile Asn Cys Lys Val
47 65 70 75 80
50 Glu Leu Glu Val Pro Gln Leu Cys Ser Phe Ile Leu Lys Thr Ser Gln
51 85 90 95
54 Cys Thr Leu Lys Glu Val Tyr Gly Phe Asn Pro Glu Gly Lys Ala Leu
55 100 105 110
58 Leu Lys Lys Thr Lys Asn Ser Glu Glu Phe Ala Ala Ala Met Ser Arg
59 115 120 125
62 Tyr Glu Leu Lys Leu Ala Ile Pro Glu Gly Lys Gln Val Phe Leu Tyr
63 130 135 140
66 Pro Glu Lys Asp Glu Pro Thr Tyr Ile Leu Asn Ile Lys Arg Gly Ile
67 145 150 155 160
70 Ile Ser Ala Leu Leu Val Pro Pro Glu Thr Glu Glu Ala Lys Gln Val
71 165 170 175
74 Leu Phe Leu Asp Thr Val Tyr Gly Asn Cys Ser Thr His Phe Thr Val
75 180 185 190
78 Lys Thr Arg Lys Gly Asn Val Ala Thr Glu Ile Ser Thr Glu Arg Asp
79 195 200 205

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82 Leu Gly Gln Cys Asp Arg Phe Lys Pro Ile Arg Thr Gly Ile Ser Pro
83      210                215                220
86 Leu Ala Leu Ile Lys Gly Met Thr Arg Pro Leu Ser Thr Leu Ile Ser
87 225                230                235                240
90 Ser Ser Gln Ser Cys Gln Tyr Thr Leu Asp Ala Lys Arg Lys His Val
91      245                250                255
94 Ala Glu Ala Ile Cys Lys Glu Gln His Leu Phe Leu Pro Phe Ser Tyr
95      260                265                270
98 Asn Asn Lys Tyr Gly Met Val Ala Gln Val Thr Gln Thr Leu Lys Leu
99      275                280                285
102 Glu Asp Thr Pro Lys Ile Asn Ser Arg Phe Phe Gly Glu Gly Thr Lys
103      290                295                300
106 Lys Met Gly Leu Ala Phe Glu Ser Thr Lys Ser Thr Ser Pro Pro Lys
107 305                310                315                320
110 Gln Ala Glu Ala Val Leu Lys Thr Leu Gln Glu Leu Lys Lys Leu Thr
111      325                330                335
114 Ile Ser Glu Gln Asn Ile Gln Arg Ala Asn Leu Phe Asn Lys Leu Val
115      340                345                350
118 Thr Glu Leu Arg Gly Leu Ser Asp Glu Ala Val Thr Ser Leu Leu Pro
119      355                360                365
122 Gln Leu Ile Glu Val Ser Ser Pro Ile Thr Leu Gln Ala Leu Val Gln
123      370                375                380
126 Cys Gly Gln Pro Gln Cys Ser Thr His Ile Leu Gln Trp Leu Lys Arg
127 385                390                395                400
130 Val His Ala Asn Pro Leu Leu Ile Asp Val Val Thr Tyr Leu Val Ala
131      405                410                415
134 Leu Ile Pro Glu Pro Ser Ala Gln Gln Leu Arg Glu Ile Phe Asn Met
135      420                425                430
138 Ala Arg Asp Gln Arg Ser Arg Ala Thr Leu Tyr Ala Leu Ser His Ala
139      435                440                445
142 Val Asn Asn Tyr His Lys Thr Asn Pro Thr Gly Thr Gln Glu Leu Leu
143      450                455                460
146 Asp Ile Ala Asn Tyr Leu Met Glu Gln Ile Gln Asp Asp Cys Thr Gly
147 465                470                475                480
150 Asp Glu Asp Tyr Thr Tyr Leu Ile Leu Arg Val Ile Gly Asn Met Gly
151      485                490                495
154 Gln Thr Met Glu Gln Leu Thr Pro Glu Leu Lys Ser Ser Ile Leu Lys
155      500                505                510
158 Cys Val Gln Ser Thr Lys Pro Ser Leu Met Ile Gln Lys Ala Ala Ile
159      515                520                525
162 Gln Ala Leu Arg Lys Met Glu Pro Lys Asp Lys Asp Gln Glu Val Leu
163      530                535                540
166 Leu Gln Thr Phe Leu Asp Asp Ala Ser Pro Gly Asp Lys Arg Leu Ala
167 545                550                555                560
170 Ala Tyr Leu Met Leu Met Arg Ser Pro Ser Gln Ala Asp Ile Asn Lys
171      565                570                575
174 Ile Val Gln Ile Leu Pro Trp Glu Gln Asn Glu Gln Val Lys Asn Phe
175      580                585                590
178 Val Ala Ser His Ile Ala Asn Ile Leu Asn Ser Glu Glu Leu Asp Ile

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179          595          600          605
182 Gln Asp Leu Lys Lys Leu Val Lys Glu Ala Leu Lys Glu Ser Gln Leu
183          610          615          620
186 Pro Thr Val Met Asp Phe Arg Lys Phe Ser Arg Asn Tyr Gln Leu Tyr
187 625          630          635          640
190 Lys Ser Val Ser Leu Pro Ser Leu Asp Pro Ala Ser Ala Lys Ile Glu
191          645          650          655
194 Gly Asn Leu Ile Phe Asp Pro Asn Asn Tyr Leu Pro Lys Glu Ser Met
195          660          665          670
198 Leu Lys Thr Thr Leu Thr Ala Phe Gly Phe Ala Ser Ala Asp Leu Ile
199          675          680          685
202 Glu Ile Gly Leu Glu Gly Lys Gly Phe Glu Pro Thr Leu Glu Ala Leu
203          690          695          700
206 Phe Gly Lys Gln Gly Phe Phe Pro Asp Ser Val Asn Lys Ala Leu Tyr
207 705          710          715          720
210 Trp Val Asn Gly Gln Val Pro Asp Gly Val Ser Lys Val Leu Val Asp
211          725          730          735
214 His Phe Gly Tyr Thr Lys Asp Asp Lys His Glu Gln Asp Met Val Asn
215          740          745          750
218 Gly Ile Met Leu Ser Val Glu Lys Leu Ile Lys Asp Leu Lys Ser Lys
219          755          760          765
222 Glu Val Pro Glu Ala Arg Ala Tyr Leu Arg Ile Leu Gly Glu Glu Leu
223          770          775          780
226 Gly Phe Ala Ser Leu His Asp Leu Gln Leu Leu Gly Lys Leu Leu Leu
227 785          790          795          800
230 Met Gly Ala Arg Thr Leu Gln Gly Ile Pro Gln Met Ile Gly Glu Val
231          805          810          815
234 Ile Arg Lys Gly Ser Lys Asn Asp Phe Phe Leu His Tyr Ile Phe Met
235          820          825          830
238 Glu Asn Ala Phe Glu Leu Pro Thr Gly Ala Gly Leu Gln Leu Gln Ile
239          835          840          845
242 Ser Ser Ser Gly Val Ile Ala Pro Gly Ala Lys Ala Gly Val Lys Leu
243          850          855          860
246 Glu Val Ala Asn Met Gln Ala Glu Leu Val Ala Lys Pro Ser Val Ser
247 865          870          875          880
250 Val Glu Phe Val Thr Asn Met Gly Ile Ile Ile Pro Asp Phe Ala Arg
251          885          890          895
254 Ser Gly Val Gln Met Asn Thr Asn Phe Phe His Glu Ser Gly Leu Glu
255          900          905          910
258 Ala His Val Ala Leu Lys Ala Gly Lys Leu Lys Phe Ile Ile Pro Ser
259          915          920          925
262 Pro Lys Arg Pro Val Lys Leu Leu Ser Gly Gly Asn Thr Leu His Leu
263          930          935          940
266 Val Ser Thr Thr Lys Thr Glu Val Ile Pro Pro Leu Ile Glu Asn Arg
267 945          950          955          960
270 Gln Ser Trp Ser Val Cys Lys Gln Val Phe Pro Gly Leu Asn Tyr Cys
271          965          970          975
274 Thr Ser Gly Ala Tyr Ser Asn Ala Ser Ser Thr Asp Ser Ala Ser Tyr
275          980          985          990

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278 Tyr Pro Leu Thr Gly Asp Thr Arg  Leu Glu Leu Glu Leu  Arg Pro Thr
279      995      1000      1005
282 Gly Glu  Ile Glu Gln Tyr Ser  Val Ser Ala Thr Tyr  Glu Leu Gln
283      1010      1015      1020
286 Arg Glu  Asp Arg Ala Leu Val  Asp Thr Leu Lys Phe  Val Thr Gln
287      1025      1030      1035
290 Ala Glu  Gly Ala Lys Gln Thr  Glu Ala Thr Met Thr  Phe Lys Tyr
291      1040      1045      1050
294 Asn Arg  Gln Ser Met Thr Leu  Ser Ser Glu Val Gln  Ile Pro Asp
295      1055      1060      1065
298 Phe Asp  Val Asp Leu Gly Thr  Ile Leu Arg Val Asn  Asp Glu Ser
299      1070      1075      1080
302 Thr Glu  Gly Lys Thr Ser Tyr  Arg Leu Thr Leu Asp  Ile Gln Asn
303      1085      1090      1095
306 Lys Lys  Ile Thr Glu Val Ala  Leu Met Gly His Leu  Ser Cys Asp
307      1100      1105      1110
310 Thr Lys  Glu Glu Arg Lys Ile  Lys Gly Val Ile Ser  Ile Pro Arg
311      1115      1120      1125
314 Leu Gln  Ala Glu Ala Arg Ser  Glu Ile Leu Ala His  Trp Ser Pro
315      1130      1135      1140
318 Ala Lys  Leu Leu Leu Gln Met  Asp Ser Ser Ala Thr  Ala Tyr Gly
319      1145      1150      1155
322 Ser Thr  Val Ser Lys Arg Val  Ala Trp His Tyr Asp  Glu Glu Lys
323      1160      1165      1170
326 Ile Glu  Phe Glu Trp Asn Thr  Gly Thr Asn Val Asp  Thr Lys Lys
327      1175      1180      1185
330 Met Thr  Ser Asn Phe Pro Val  Asp Leu Ser Asp Tyr  Pro Lys Ser
331      1190      1195      1200
334 Leu His  Met Tyr Ala Asn Arg  Leu Leu Asp His Arg  Val Pro Glu
335      1205      1210      1215
338 Thr Asp  Met Thr Phe Arg His  Val Gly Ser Lys Leu  Ile Val Ala
339      1220      1225      1230
342 Met Ser  Ser Trp Leu Gln Lys  Ala Ser Gly Ser Leu  Pro Tyr Thr
343      1235      1240      1245
346 Gln Thr  Leu Gln Asp His Leu  Asn Ser Leu Lys Glu  Phe Asn Leu
347      1250      1255      1260
350 Gln Asn  Met Gly Leu Pro Asp  Phe His Ile Pro Glu  Asn Leu Phe
351      1265      1270      1275
354 Leu Lys  Ser Asp Gly Arg Val  Lys Tyr Thr Leu Asn  Lys Asn Ser
355      1280      1285      1290
358 Leu Lys  Ile Glu Ile Pro Leu  Pro Phe Gly Gly Lys  Ser Ser Arg
359      1295      1300      1305
362 Asp Leu  Lys Met Leu Glu Thr  Val Arg Thr Pro Ala  Leu His Phe
363      1310      1315      1320
366 Lys Ser  Val Gly Phe His Leu  Pro Ser Arg Glu Phe  Gln Val Pro
367      1325      1330      1335
370 Thr Phe  Thr Ile Pro Lys Leu  Tyr Gln Leu Gln Val  Pro Leu Leu
371      1340      1345      1350
374 Gly Val  Leu Asp Leu Ser Thr  Asn Val Tyr Ser Asn  Leu Tyr Asn

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375	1355	1360	1365
378	Trp Ser Ala Ser Tyr Ser Gly Gly Asn Thr Ser Thr Asp His Phe		
379	1370	1375	1380
382	Ser Leu Arg Ala Arg Tyr His Met Lys Ala Asp Ser Val Val Asp		
383	1385	1390	1395
386	Leu Leu Ser Tyr Asn Val Gln Gly Ser Gly Glu Thr Thr Tyr Asp		
387	1400	1405	1410
390	His Lys Asn Thr Phe Thr Leu Ser Cys Asp Gly Ser Leu Arg His		
391	1415	1420	1425
394	Lys Phe Leu Asp Ser Asn Ile Lys Phe Ser His Val Glu Lys Leu		
395	1430	1435	1440
398	Gly Asn Asn Pro Val Ser Lys Gly Leu Leu Ile Phe Asp Ala Ser		
399	1445	1450	1455
402	Ser Ser Trp Gly Pro Gln Met Ser Ala Ser Val His Leu Asp Ser		
403	1460	1465	1470
406	Lys Lys Lys Gln His Leu Phe Val Lys Glu Val Lys Ile Asp Gly		
407	1475	1480	1485
410	Gln Phe Arg Val Ser Ser Phe Tyr Ala Lys Gly Thr Tyr Gly Leu		
411	1490	1495	1500
414	Ser Cys Gln Arg Asp Pro Asn Thr Gly Arg Leu Asn Gly Glu Ser		
415	1505	1510	1515
418	Asn Leu Arg Phe Asn Ser Ser Tyr Leu Gln Gly Thr Asn Gln Ile		
419	1520	1525	1530
422	Thr Gly Arg Tyr Glu Asp Gly Thr Leu Ser Leu Thr Ser Thr Ser		
423	1535	1540	1545
426	Asp Leu Gln Ser Gly Ile Ile Lys Asn Thr Ala Ser Leu Lys Tyr		
427	1550	1555	1560
430	Glu Asn Tyr Glu Leu Thr Leu Lys Ser Asp Thr Asn Gly Lys Tyr		
431	1565	1570	1575
434	Lys Asn Phe Ala Thr Ser Asn Lys Met Asp Met Thr Phe Ser Lys		
435	1580	1585	1590
438	Gln Asn Ala Leu Leu Arg Ser Glu Tyr Gln Ala Asp Tyr Glu Ser		
439	1595	1600	1605
442	Leu Arg Phe Phe Ser Leu Leu Ser Gly Ser Leu Asn Ser His Gly		
443	1610	1615	1620
446	Leu Glu Leu Asn Ala Asp Ile Leu Gly Thr Asp Lys Ile Asn Ser		
447	1625	1630	1635
450	Gly Ala His Lys Ala Thr Leu Arg Ile Gly Gln Asp Gly Ile Ser		
451	1640	1645	1650
454	Thr Ser Ala Thr Thr Asn Leu Lys Cys Ser Leu Leu Val Leu Glu		
455	1655	1660	1665
458	Asn Glu Leu Asn Ala Glu Leu Gly Leu Ser Gly Ala Ser Met Lys		
459	1670	1675	1680
462	Leu Thr Thr Asn Gly Arg Phe Arg Glu His Asn Ala Lys Phe Ser		
463	1685	1690	1695
466	Leu Asp Gly Lys Ala Ala Leu Thr Glu Leu Ser Leu Gly Ser Ala		
467	1700	1705	1710
470	Tyr Gln Ala Met Ile Leu Gly Val Asp Ser Lys Asn Ile Phe Asn		
471	1715	1720	1725

VERIFICATION SUMMARY

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